



(43) International Publication Date
1 September 2005 (01.09.2005)

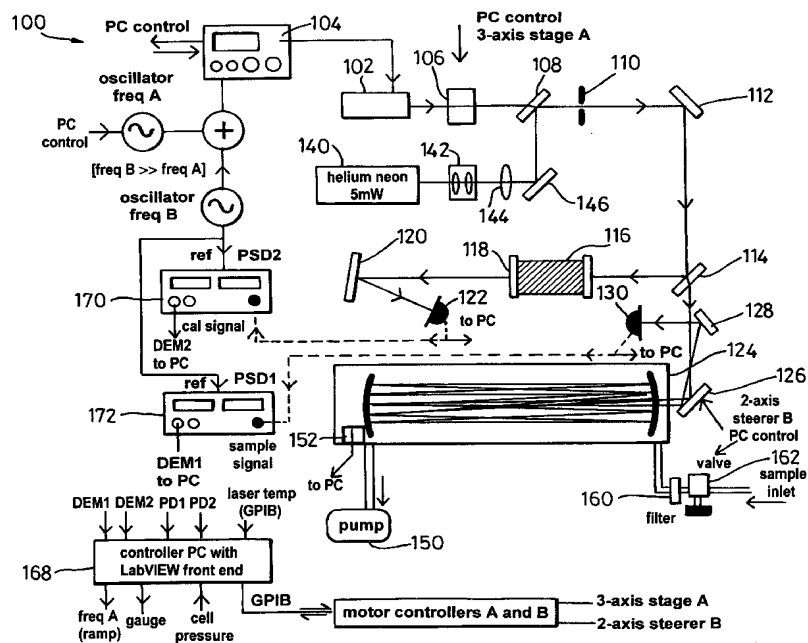
PCT

(10) International Publication Number
WO 2005/079669 A1

- | | |
|--|--|
| <p>(51) International Patent Classification⁷: A61B 5/083,
5/097, G01N 33/497, 21/35</p> <p>(21) International Application Number:
PCT/GB2005/000539</p> <p>(22) International Filing Date: 16 February 2005 (16.02.2005)</p> <p>(25) Filing Language: English</p> <p>(26) Publication Language: English</p> <p>(30) Priority Data:
0403612.5 18 February 2004 (18.02.2004) GB</p> <p>(71) Applicant (for all designated States except US): THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW [GB/GB]; The Gilbert Scott Building, University Avenue, Glasgow, Strathclyde G12 8QQ (GB).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): Longbottom, Christopher [GB/GB]; 32 Norwood, Newport-on-Tay Fife DD6 8DW (GB). Padgett, Miles, John [GB/GB]; 14A Crown Terrace, Dowanhill, Glasgow, Strathclyde G12 9ES</p> | <p>(GB). SKELDON, Kenneth, David [GB/GB]; Flat 3/1, 1808 Gt Western Road, Anniesland, Glasgow, Strathclyde G13 2TL (GB).</p> <p>(74) Agents: NAYLOR, Matthew et al.; Mewburn Ellis LLP, York House, 23 Kingsway, London, Greater London WC2B 6HP (GB).</p> <p>(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.</p> <p>(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,</p> |
|--|--|

[Continued on next page]

(54) Title: METHOD, APPARATUS AND KIT FOR BREATH DIAGNOSIS



(57) Abstract: Various medical conditions in a subject may be diagnosed by comparing the concentration of a diagnostic species such as ethane in breath samples from a subject from different stages of the breathing cycle. Using phase sensitive measurement of absorption of IR laser radiation, very small concentrations of the diagnostic species can be measured. Apparatus for collecting breath samples from different stages of the breathing cycle is also disclosed.



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*